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THE ANNUAL REPORT

of the

Ranchi Indian Mental Hospital, Kanke, in Bihar, for the year 1939

BY

LT.-COL. J. E. DHUNJIBHOY, M.B., B.S., F.C.P.S., I.M.S.,
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FROM

THE INSPECTOR-GENERAL OF
CIVIL HOSPITALS, BIHAR,

To

THE SECRETARY TO THE GOVERNMENT OF
BIHAR, LOCAL SELF-GOVERNMENT DEPARTMENT.

Dated Patna, the 3rd September 1940.

SUBJECT.—Annual report on the working of the Ranchi Indian Mental Hospital for the year 1939.

SIR,

I HAVE the honour to submit for the information of Government, the Superintendent's report on the working of the Ranchi Indian Mental Hospital for the year 1939, together with the annual returns in prescribed forms. The institution worked with high efficiency and the reputation of past was thoroughly well maintained.

I have the honour to be,

SIR,

Your most obedient servant,

H. STOTT,

O.B.E., M.D., F.R.C.P., D.P.H., V.H.S., COL., I.M.S.,
Inspector-General of Civil Hospitals, Bihar.

THE FIFTEENTH ANNUAL REPORT

OF THE

Ranchi Indian Mental Hospital, Kanke, in Bihar, for the year 1939.

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1. *Administration.*—I held charge of the hospital throughout the year under review except for a short period on leave from the 17th October 1939 to the 14th November 1939, when the first Assistant Superintendent, Dr. S. A. Mozaffar, M.B., officiated in my place.

2. *Provinces served.*—The hospital continues to receive patients from the Provinces of Bengal, Bihar and Orissa. The allocation of beds to the Provinces being the same as in the previous years, viz., Bengal 75 per cent, Bihar 20 per cent and Orissa 5 per cent.

3. *Accommodation.*—The sanctioned accommodation of the hospital, including the emergency beds was the same as in the previous years, viz., males 1,108, females 272, total 1,380.

4. *Patients—Statement no. I.*—The number of patients resident in the hospital on the 1st January 1939 and the two previous years is shown in the table appended below :—

Year.	Male.	Female.	Total.
1939	1,096	262	1,358
1938	1,068	256	1,324
1937	1,062	256	1,318

5. The total population of the hospital as per statement no. I during 1939 and the two previous years was as follows :—

Year.	Male.	Female.	Total.
1939	1,180	298	1,478
1938	1,203	296	1,499
1937	1,184	288	1,472

6. The maximum number of patients resident in the hospital on any one night during the year 1939 and the two previous years was as follows :—

Year,			Male.	Female.	Total.
1939	..	..	1,103	266	1,369
1938	..	..	1,102	264	1,366
1937	..	..	1,086	258	1,344

7. The daily average strength of the patients during 1939 compared with the two previous years was as follows :—

Year.		Male.	Female.	Total.
1939	..	1096·94	263·33	1360·27
1938	..	1086·23	258·65	1344·88
1937	..	1067·40	255 53	1322·93

8. *Total admission.*—The following table shows the admissions during the year 1939 and the two previous years :—

Year.		Male	Female.	Total.
1939	..	84	36	120
1938	..	135	40	175
1937	..	122	32	154

9. The ratio per cent of cases recovered to the daily average strength during the year 1939 and the two previous years is shown below :—

Year.		Male.	Female.	Total.
1939	...	4·56	9·87	5·58
1938	..	5·98	6·57	6·10
1937	..	6·37	6·16	6·35

10. The following is the ratio per cent of cases recovered to total admission for the year 1939 and the two previous years :—

Year.		Male.	Female.	Total.
1939	..	26·19	30·56	27·50
1938	..	28·15	27·50	28·00
1937	..	27·87	31·26	28·57

As stated in my previous reports, majority of the so-called "new admissions" during 1939 were also chronic cases beyond any hopes of recovery and so long as this state of affairs exist there is not much hope of improving the recovery rate of these so-called "new admissions" in spite of our giving them all the known modern scientific treatment of mental disorders.

11. *Death-rate.*—The percentage of deaths to daily average strength during the year 1939 and the two previous years was as follows:—

Year.		Male.	Female.	Total.
1939	..	2·19	3·42	2·43
1938	..	2·95	3·48	3·05
1937	..	2·90	3·13	2·95

I am happy to be able to state that the hospital has continued the reputation of maintaining the lowest death-rate since its inception amongst the Indian Mental Hospitals in India.

12. Causes of death during the year under report were as follows:—

1. Dysentery, 2. Diarrhœa, 3. Enteric, 4. Cerebral Malaria, 5. T. B. Lungs, 6. Heart failures, 7. Cirrhosis of Liver, 8. Leprosy, 9. Exhaustion and 10. Senile Debility.

13. Duration of hospital life of those who died during the year is shown in the following table:—

Period.			M.	F.	T.
Under 6 months	..	..	..	..	..
Over 6 months and under 1 year	..	..	...	..	..
Over 1 year and under 2 years	..	..	1	..	1
Over 2 years and under 3 years	...	..	..	2	2
Over 3 years and under 5 years	..	..	1	1	2
Over 5 years and under 7 years	..	..	2	1	3
Over 7 years and under 10 years	..	..	1	1	2
Over 10 years and under 15 years	..	..	2	1	3
Over 15 years and under 20 years	..	..	6	1	7
Over 20 years and under 25 years	..	..	1	..	1
Over 25 years and under 30 years	..	..	3	..	3
Over 30 years and under 35 years	..	..	2	1	3
Over 35 years and under 45 years	..	..	4	1	5
Over 45 years ...	..	..	1	..	1
			24	9	33

14. The ages of patients died are shown below:—

Age.			M.	F.	T.
Under 20 years of age ..	..	..	..	2	2
Between 20 and 40 years ..	..	..	2	1	3
Between 40 years and 60 years	..	..	16	4	20
Upwards 60 years ..	..	..	6	2	8
			24	9	33

15. *Health of patients.*—The general health of patients was good throughout the year under report. There was no serious outbreak of any kind of epidemic diseases during the year except that a mild form of Influenza Epidemic broke out in the month of September 1939 and many cases of Malaria were also admitted into the Infirmaries during that month. In the month of May 1939 there were sporadic cases of Chicken Pox.

During the period of the Influenzal epidemic a very interesting clinical observation was brought to our notice that those patients with latent malaria in them also suffered from Malaria during the Influenzal attack showing that the latent malaria was actually lighted up in those cases by Influenza. However, I am happy to be able to record that no death took place during the epidemic although more than 300 patients were down with Influenza and Malaria.

16. *Sickness.*—The daily average number of sick treated for physical ailments during the year 1939 and the two previous years is shown below:—

Year.	Male.	Female.	Total.
1939	70·83	26·50	97·33
1938	59·48	13·80	73·28
1937	60·63	13·50	74·13

The slight rise in sickness during 1939 was due to the outbreak of Malaria and Influenza in a mild epidemic form amongst the patients as fully stated under paragraph 15.

The following were the main types of physical disorders treated in the Infirmaries during 1939 :—

Amoebic Dysentery, Malaria, General Diseases including Debility, Areolar Tissue, Ankylostomiasis, Skin Diseases, Influenza, Diseases of other Digestive System, T. B. of Lung, Ulcerative Inflammation, Pyrexia of Uncertain origin, Scabies, Injuries.

Besides, 2,829 patients of both sexes were treated at the outdoor departments of the hospital for minor injuries, ailments, etc., during the year under report.

17. *Statement no. II.—Cases under Observation.*—The total number of patients held under remand for brief periods of observation was 2 males; of which one was certified and admitted and one was discharged as uncertifiable.

18. *Statement no. III– Criminal patients.*—The daily average strength of criminal patients for the year 1939 and the two previous years is shown below :—

Year.	Male.	Female.	Total.
1939	438·95	44·72	463·67
1938	439·86	44·13	463·99
1937	433 69	41·24	474.93

The following table shows the number of criminal patients admitted during the year 1939 and a classification of the crime committed by them :—

Crimes.	Male	Female.	Total.
Murder	5	3	8
Culpable Homicide	3	1	4
Hurt and Grievous Hurt.. ..	3	..	3
House-breaking and theft ..	5	..	5
126 Railway Act	1	..	1
Kidnapping	..	1	1
Selling minor girl for prostitution ..	..	1	1
Total ..	17	6	23

The following is a list of criminal patients resident on the 31st December 1939 and the crimes committed by them :—

Crime.	Male.	Female.	Total.
Murder	248	26	274
Culpable Homicide ..	62	3	65
Hurt and Grievous Hurt ..	83	2	85
Attempt at Murder and Suicide	12	4	16
House-breaking and theft ..	17	2	19
Other petty offences ..	20	2	22
Rape	3	..	3
Mischief by fire	13	1	14
Exposure and abandonment of a child.	..	2	2
Total ..	458	42	500

19. *Statement no. IV.*—Shows the religion, sex and residence of the patients admitted during the year under report and is self-explanatory.

20. *Statement no. V.*—Shows the ages of patients admitted during the year.

As in the previous years, a glance at Statement no. V will convince any one that the toll of mental diseases is greatest between the ages of 20 to 40.

21. *Statement no. VI.*—Shows the forms of mental disorders of those admitted during the year and needs no comment.

22. *Statement no. VII.*—Shows the probable causes of insanity in those admitted during the year and is self-explanatory.

23. *Paying patients.*—The following number of paying patients were treated during the year under report and compared with those of the two previous years:—

Year			Male.	Female.	Total.
1939	..	..	55	13	78
1938	..	..	70	30	100
1937	..	..	78	24	102

For want of accommodation we had again to refuse many applications for admission of paying patients during the year under report.

24. *Injuries and Suicide.*—During the year under report no cases of serious accidental injuries took place except a few cases of minor injuries and accidents.

It is very gratifying to record here that there was no case of suicide during the year under review although several serious attempts were made by some of the potential suicides of this hospital numbering about 160. I owe a deep debt of gratitude to all the staff of the Suicidal Wards of the hospital whose day and night hawk-like watch on suicidal cases have enabled me to write this happy result.

25. *Absconding.*—There was no case of escape during the year under report, although a considerable amount of freedom was afforded to the patients.

26. *Autopsy.*—Post-mortem examinations were held on 19 cases during the year under report, and interesting specimens were preserved in the hospital Laboratory.

27. *Conservancy and Sanitation.*—The general sanitation of the whole area of the hospital as well as that of the staff lines was satisfactory throughout the year under review.

28. *Methods and treatment of patients.*—Ever since the inception of this, the largest and one of the most, modern Mental Hospitals in India neither expense nor trouble is ever allowed to stand in the way of the employment of the latest treatment in the field of Psychological medicine if thereby the patients can in any way be benefited. In the Reception Wards of the hospital all newly admitted patients on admission are subjected to a thorough systematic examination both physical and psychological, and later they are given the benefit of whatever special treatment is needed in individual cases.

(*i*) *Occupational Therapy.*—The Occupational Therapy continues to be the sheet anchor of our treatment. The average number of patients employed in useful tasks was 80 per cent of the population throughout the year under review. Every effort is made to provide various occupations for the patients and the patients are allowed to choose their own occupations and those who want to learn new crafts are also encouraged. The detailed list of works carried out in the Occupational Therapy Departments was fully dealt with in my previous reports and a repetition is therefore unnecessary.

(*ii*) *Hydrotherapy.*—This department was kept busy throughout the year under review. Eighty-two male and 26 female (total 108) patients were given this treatment during 1939 with gratifying results. The average hours of immersion per patient were 97·5 hours.

As my pattern of bath tubs is cheap and easy to manipulate we had many requests from institutions as well as private individuals to supply them with the plan of this tub and one of the Institutions even placed an order with us for the tubs. I therefore make it clear that we do not sell these tubs, but I have no objection to supply the plan of the tub free of charge to any one who applies for it as the tub can be easily made anywhere.

(*iii*) *Drugs.*—From the dim past mental patients have been subjected to various forms of treatment with the object of creating a shock to their central nervous system ; some of these methods were no doubt barbarous in the extreme. In more recent times Shock Treatment has been greatly elaborated. Insulin, Cardiazol, Triazol, etc., have all had their turn and even these have had their risks and terrors. However, in the present

state of our knowledge of mental diseases any treatment that gives encouraging results must be tried with a hope of cure or amelioration of the patients' mental conditions, and the shock therapy in spite of its being expensive and highly specialised no doubt gives encouraging results and is worth trying.

(*a*) *Cardiazol treatment.*—During the year under review 61 patients were tried with Cardiazol Shock treatment with the following results :—

Diseases.	Recovered.	Temporary remission.	Improved.	Stationary.	Otherwise.	Total.
1	2	3	4	5	6	7
Manic Depressive Psychosis	7	5	2	7	...	21
Chronic Schizopherenia ...	...	1	3	10	...	14
Recent cases of Schizo pherenia.	10	4	3	5	...	22
For diagnosis of Epilepsy	...	...	...	...	3	3
Psychoneurosis (Anxiety Neurosis).	...	1	...	...	...	1
Total ...	17	11	8	22	3	61

(*b*) *Treatment of highly excited patients with sub-shock Nitrogen Gas Inhalation.*—Newer treatments for Schizophrenics have attracted much interest and attention during the past few years. Two methods of shock treatment, Insulin and Cardiazol have proved to be of therapeutic value. Studies of the physiological changes occurring during this treatment by Dr. G. Edward Hall, M.D, and his co-workers of the Department of the Medical Research, Benting Institute of the University of Toronto, Canada, have revealed that in both cases there exists a marked decrease in cerebral metabolism. The diminished cerebral oxygen consumption (anoxia) decrease in frequency of cortical rhythm and the appearances of neurological disturbances are all indicators of depressed cerebral metabolism. Dr. G. Edward Hall, M.D., Professor of Medical Research, Toronto University, on analysing his results suggested that similar physiological and biochemical changes can be induced more readily and with less hardships to patients, by producing anoxia as a result of breathing high nitrogen—low oxygen inhalations. Dr. Hall studied

this problem in normal individuals. He found that by having the individual breathed N-O_2 mixtures with the O_2 gradually decreased from 20 per cent to 17, 13, 10, 9 he can produce a gradual anoxia with sleepiness being a predominant feature. After studying the literature on the subject I decided to experiment with this treatment and 40 patients were subjected to this treatment during the year under review. I must admit that we failed to produce convulsive shocks by this method, but what emerged out of the experiment was a ray of hope that by given nitrogen inhalation to highly excited patients for five minutes the patients not only quietened down in their excitement but were also able to sleep for hours. Highly excited patients after five minutes inhalation of nitrogen slept for ten minutes to two hours after inhalation and they remained quiet throughout the day and slept for five to seven hours in the night, and some remain quiet after this treatment for some days. Each patient was given this treatment every alternate day until the excitement was abated and natural sleep produced. The maximum period per patient for this treatment was three months and the minimum one week. Our success with Nitrogen Gas Inhalation in excited cases was so great that for some time we temporarily closed down our Hydrotherapy Wards and all old and new highly excited patients with marked insomnia were submitted to this treatment with encouraging results. The results of my experiment were communicated to Dr. Hall and he wrote us a very encouraging letter as follows :—

"I think the work which you have done on the use of nitrogen is extremely interesting and the responses which you obtained in the highly excited cases are of considerable value. This work of yours should be continued."

The treatment is still in the experimental stage and the full results of our experiment will be published in our next Annual Report.

(c) *The prolonged continuous sleep treatment by Medinal and Luminal.*—This treatment is now largely in vogue in most of the Mental Hospitals and Nursing Homes of America, and is cheaper, better and less deleterious in its effects as compared with continuous sleep treatment by Somnifene which is largely used in Europe.

Technique of treatment.—Before starting the treatment each patient is given a cleansing enema. He is then given the standard sleep mixture, each dram of which contains one grain of Luminal and five grains of Medinal, dissolved in peppermint

water and coloured red. Two drams of this mixture are usually given every four hours until sleep has been induced, then one dram often enough to maintain the desired state of somnolence. Constipation must be guarded against and a daily enema must be given. If the proper amount of the drug is given the patient can be aroused, taken to the bathroom, fed, given another dose of medicine, following which he promptly goes to sleep again. The results obtained with this type of therapy in manic and depressed patients are quite encouraging. The patients awake almost refreshed and rested, with considerable gain in weight and a completely new out-look of life. By this method patients are made to sleep from 16 to 20 hours a day. The treatment in the first instance can be continued for ten days and later it may be extended up to a month. During the year under review eight schizophrenic and Manic Depressive Psychosis type patients were selected for this treatment. Our results so far are encouraging and will be published in our next Annual Report when the treatment is tried on a large number of cases. The treatment is not free from danger and the complications to be guarded against are :—

(1) Fever and Diarrhœa.

(2) Pneumonia.

(3) Cysto-pylo-nephritis.

When a complication occurs the drug must be stopped at once and the patient may be treated according to the symptoms.

(*d*) *Treatment of Epilepsy by Dilantin Sodium.*—The latest reports on the treatment of epilepsy by Dilantin Sodium in medical literatures were fascinating and I therefore, decided to try this drug with my epileptic patients of which we have a large number. This drug is reputed to be very efficacious in reducing the frequency and severity of fits in epileptics although no claim has been made for a complete cure of this fell disease by the drug. Those who are in daily touch with such unfortunate patients can only realise what it means to an epileptic when the frequency and severity of his fits are reduced by a drug. Eight such patients were selected for this treatment during the year under review and Messrs. Parke Davies and Company, Limited, very kindly supplied free of charge Kapseals Dilantin Sodium in sufficient quantity for our experiment. Our results with this drug so far are extremely encouraging and we shall publish our results in our next report when we have tried this drug on a fair number of patients.

(*e*) *Electric Convulsion Therapy.*—Recently mental patients are given shock treatment by giving shocks to the brain by means of an Electric Apparatus. This newer treatment was elaborated in Italy and it is now used in some of the hospitals of England and America. After studying the literature I placed an order for the Apparatus with the manufacturers, but unfortunately owing to War conditions the factory has temporarily stopped manufacturing the Apparatus for export purposes. They have however, promised that they will supply our demand as early as possible when the circumstances permit. On receipt of this Apparatus the patients will be given the benefit of this newer electric treatment.

(*f*) *Sulfosion Therapy.*—This treatment was extensively given to suitable patients and during the year under report 55 patients were treated and the results were as following :—

Recovered.	Improved.	Stationary.
13	15	27

Similarly 22 cases of skin diseases of the types mentioned below were also given Sulphur injections and all of them were cured except two.

	Cured.	Stationary.
Scabies	19	..
Eczema	1	1
Psoriasis	..	1

(*iv*) *Physiotherapy.*—The following number of specimens were examined in the hospital laboratory during the year under report :—

Blood	964
Urine	1,886
Stool	532
Sputum	89
Other examinations	97

Besides 217 specimens of blood and 39 specimens of C. S. F. were sent for W. R. Test and Lang's Colloidal Gold Test in the Pathological Department of the Prince of Wales Medical College, Patna, of which 35 of the former and 6 of the latter were positive and these patients were given proper antisyphilitic treatment.

(*v*) *Dentistry.*—1,789 patients received dental treatment during the year under report.

(*vi*) *Operations.*—11 major and 114 minor operations were performed during the year under report.

(*vii*) *Nasal Feeding.*—During the year under report 1,718 Nasal feeds were given to those patients who persistently refused to eat or drink.

(*viii*) *Diversional Therapy* (*Games and Amusement*).—(*a*) *Foot-ball.*—10 foot-ball matches were played, in the local League Shield competitions and friendly matches, by the hospital team during the year under report of which won 2 and lost 8.

(*b*) *Hockey.*—7 Hockey matches were also played of which won 2, draw 1 and lost 4.

Besides some of the patients daily play tennis, badminton, basket balls, coits and various other outdoor games.

Every evening, except on Cinema nights nearly 200 patients assemble daily in the Amusement Halls of both the sections and amuse themselves with various indoor games and music, and those who are literate and are fond of reading, are provided with daily newspapers, Weeklies and Magazines, etc.

(*c*) *Special entertainments.*—The following is a list of special entertainments given to the patients during the year under report:—

1. The Annual Hospital Sports.
2. Christmas Tree.
3. Dancing performance by Professor Ismail and Party.
4. Theatrical performance by the students of the Prince of Wales Medical College, Patna and Indian Mental Hospital staff (combined)
5. Magic performance by Professor Manjhu.
6. Magic performance by Professor P. C. Sorcar of International fame.
7. Theatrical performance by the girls of the St. Margaret's School, Ranchi.
8. Theatrical performances by the Bengali children of Kanke.
9. Theatrical performance by the Swatantra Bharat Club, Ranchi.
10. Theatrical performance by staff.

(*d*) *Cinema.*—20 silent and 4 Talkie shows were given during the year under report.

I am happy to be able to record that the Talkie Machine which was sanctioned in the previous year was installed during the year under report and has become a great source of enjoyment to the patients. Weekly shows are given and the patients look forward with great pleasure for the shows. Cinema serves not only as a source of amusement to patients but it is a therapy in itself and acts as a tonic to rehabilitation of patients.

(e) The hospital Band continued to entertain the patients with music throughout the year under report, in both the Sections of the hospital.

(f) *Paroles and Motor drives.*—As in the previous years many patients of both sexes were granted local parole with or without attendants and batches of patients were sent out for daily motor drives to Ranchi and the dependable patients were allowed to do their own shopping in the town.

(g) *Annual Picnics.*—As in the past, in the month of March 2[illegible]0 male and 100 female patients were taken out to a neighbouring river side garden for a whole day picnic. As usual they were treated with a sumptuous lunch and tea. The patients amused themselves with various indoor and outdoor games and the hospital Band also entertained them and they thoroughly enjoyed the picnic.

(h) *Religious Therapy.*—Kirtans and Bhajans for the Hindus, Milad Sharif for the Muhammadans and Divine Services for the Christians, including religious discourses and songs were regularly held during the year under report. Besides, the patients were allowed to fast on religious grounds.

I express my best thanks to the Pandit and Maulavi Saheb for giving religious therapy to my patients on a very nominal honorarium and to all the Christian Padris for giving similar services without any honorarium. During Puja festival batches of patients were sent to visit the local celebrations held outside the hospital and Id prayers were held inside the hospital.

29. *Feasts.*—As in the previous years special feasts were given to the patients during special religious festive occasions, such as Pujahs, Holi, Id and Christmas.

30. *Libraries.*—(1) There are plenty of books for the Library of patients. A few more suitable books were added during the year under report.

The following newspapers and monthly magazines were continued to be supplied to the hospital free of cost and my best thanks are due to their respective proprietors :—

1. *Statesman.*
2. *Amrita Bazar Patrika.*
3. *Advance.*
4. *Star of India.*
5. *Searchlight.*
6. *Basumati.*
7. *Biswamitra.*
8. *Sentinal.*
9. *Illustrated Times of India.*
10. *Orient Illustrated Weekly.*
11. *Probasi.*
12. *Bharatbarsha.*

(2) The Medical Library was also replenished by a few new books and the usual supply of medical and mental journals were continued.

Both the patients and the staff made a great use of their respective Libraries.

31. *Hospital Garden*.—The garden is the greatest Occupational Therapy Department we possess and its value should not only be considered in terms of mere manual labour and production but its prime object is the physical and mental uplift of the patients.

The average number of patients employed daily in the hospital flower and Horticultural gardens during the year under report was 500. As in the past, both the gardens were run entirely with patient's labour.

A glance at the list of garden produce given in the report will convince even the most pessimistic reader about the satisfactory state of our garden, and the versatile Garden Manager his staff and the patients who helped to make the garden a great success deserve my very best thanks. Practically the patients grow everything and consume everything as very little of the garden produce is sold to the public or the staff.

A very regrettable incident happened in the year under report in March 1939—our Poultry Farm which was started by me during 1935 and was developed into a big farm by 19[illegible] had a severe set-back by the sudden outbreak of Cholera amo[illegible]

our fowls and in spite of our care and best advice from experts we lost all our best egg-layers—the beautiful leghorns which were the pride of the patients and staff and this incident broke our heart. The Poultry Farm supplied—23,284 eggs and 327 fowls to the hospital during its short life of three years.

In the cold weather of 1939 another attempt was made to start the farm again with a few local fowls after disinfecting all our poultry houses as advised by the local experts, but as ill-luck would have it the birds were again attacked with Cholera and they all died. We are now advised by experts to wait for at least a year before another attempt is made in this direction.

Another depressing incident which took place during the year under report was in connection with our papaya plantation. We had over 5,000 papaya trees in our garden and they were a source of great supply of fruits to our patients. Our papayas were very famous throughout the province, so much so, that the seeds were in demand not only from the province but also from all over India. Our plantation was affected by a certain disease called "curlyleaf" disease by experts. We consulted the provincial as well as the Government of India experts on this disease and the only advice that they could give was to cut down the trees and replant them after a certain period. To our great dismay we now find that the new plantation is also affected by this fell disease and there seems so far no remedy. I am also informed that other plantations in the Ranchi district are also affected by this disease and it is said that the Zinnia flowers are also affected with this disease every 4th or 5th year in Ranchi. The patients miss their papayas very much as they enjoyed eating this most delicious fruit from our garden for the last 14 years.

We are now trying to supplement papayas by pineapples. Our experiments on smaller scales have taught us that Ranchi soil is suitable for growing beautiful pineapples and we are now attempting to grow pineapples on a large scale to replace our loss of papayas.

The total value of produce from the garden is shown below :—

	Rs.	a.	p.
Vegetables, fruits, etc.	22,396	7	9
Fodder	507	4	0
	22,903	11	9
Vegetables, etc., sold to the staff and public ..	1,235	2	0
	24,138	13	9

The following table shows the total garden produce during the year under report :—

Vegetables.

	Mds.	sr.	ch.
Cauliflower	407	29	4
Brinjal	227	24	2
Arum	129	19	2
Sweet potato	75	37	12
Turnip	314	35	8
Tomato	181	9	6
Salad	53	17	0
Sag	298	32	10
Cabbage	941	35	8
Pumpkin	793	13	12
Bottle gourd	256	35	10
Peas	30	17	0
Green plantain	9	37	0
Beetroot	40	28	0
Carrot	141	17	2
Knol Khol	46	21	0
Onion Steam	2	3	12
Luffa	139	24	8
Cucumber	252	7	0
Bitter gourd	51	31	0
Pumpkin flowers	29	4	0
Radish	194	23	6
Green papaya	0	27	0
Snake gourd	104	22	0
Beans	66	34	2
Ash gourd	55	15	14
Lady finger	212	28	0
Potato	316	21	0
Maize cobs	8,294 nos.		

Spices.

	Mds.	sr.	ch.
Onion	119	27	4½
Garlic	7	13	0
Chillies	0	15	8

	Mds.	sr.	ch.
Grains.			
Groundnut	34	4	0
Arua fine rice	23	37	8
Arua coarse rice	1	10	8
Usna coarse rice	51	3	0
Sugarcane and Gur.			
Sugarcane	35	23	0
Gur	233	25	0
Fruits			
Lemons	1,232 nos.		
	Mds.	sr.	ch.
Ripe papayas	19	39	4
Guavas	9,190 nos.		
Ripe plantains	2,344 ,,		
Pomeloes	752 ,,		
Oranges	2,500 nos.		
Bel fruits	46 ,,		
Rose apples	26,111 ,,		
Sweet limes	186 ,,		
Mulberry	29 seers.		
Lichies	25,025 nos.		
	Md.	sr.	ch
Peaches	1	10	12
Ripe mangoes	1,755 nos.		
Pineapples	4 ,,		
	Md.	sr.	ch.
Phalsa	1	5	0
Jack fruit	13 nos.		
Custard apple	355 ,,		
Musk melons	99 ,,		
Water melons	250 ,,		
Poultry.			
Fowls	60 ,,		
Eggs	1,033 ,,		
Garden tank.			
	Mds.	sr.	ch.
Fish	8	32	8

Miscellaneous.

	Mds.	sr.	ch.
Firewood	62	0	0
Fodder.			
Straw	182	20	0
Vegetable stalks and leaves	508	8	0
Grass	882	3	0

32. ***Finance*—(1) *Receipts.***—The receipts from all sources amounted to Rs. 25,153-1-6 as compared with Rs. 25,459-4-0 in 1938 and Rs. 27,422-9-4 in 1937.

The following table shows the total amount of realisation from paying patients and also the miscellaneous receipts, which include the sale-proceeds of garden vegetables and other articles manufactured by patients in the Occupational Therapy Departments :—

Heads.	1939.			1938.			1937.		
	Rs.	a.	p.	Rs.	a.	p.	Rs.	a.	p.
Receipts from paying patients.	21,224	2	6	23,357	6	9	25,101	11	1
Miscellaneous ..	3,928	15	0	2,101	13	3	2,320	14	3

(2) ***Expenditure.***—The total expenditure exclusive of amounts received from paying patients and miscellaneous receipts was Rs. 4,80,951-4-9 in 1939, as compared with Rs. 4,63,509-2-1 in 1938 and Rs. 4,83,678-5-4 in 1937.

33. ***Annual average cost per patient.***—The following table shows the annual average cost per patient during the year under review and the two previous years :—

Year.	Annual cost per head including P. W. D. charges.			Annual cost per head excluding P. W. D. charges.		
	Rs.	a.	p.	Rs.	a.	p.
1939 ..	353	9	2	326	5	3
1938 ..	344	10	4	312	6	2
1937 ..	365	9	9	331	0	4

34. ***Staff.***—General health, transfers and conduct.

The general health of the staff throughout the year under report was good.

Dr. A. M. Sen, M.B., Second Assistant Superintendent, on completion of two years' tenure of training in this hospital returned to his own province (Bengal) on the 2nd November

1939. Dr. Sen was replaced by Dr. S. Goswami, M.B., who joined here on the 2nd November 1939. Dr. Sen during his service in this hospital did splendid work and was a very popular figure amongst patients and staff.

The work and general conduct of the staff as a whole were of the usual high standard. I express my indebtedness to the staff as a whole for their loyalty and the whole-hearted co-operation in the management of the hospital in general and to the two Assistant Superintendents for their valuable help and constant loyalty to me in particular.

35. *Managing Committee.* -The following members were either appointed or re-appointed during the year under review for another term of three years :—

1. Secretary to the Government of Bengal, Local Self-Government Department.
2. Surgeon General with the Government of Bengal.
3. Mr. Saileswar Singh Roy, M.L.C.
4. Mr. Jagat Chandra Mandal, M.L.A.
5. Maulavi Abdul Hakeem, M.A., B.L., M.L.A.
6. Khan Bahadur Maulavi Abdul Momin, C.I.E.
7. Mr. M. Farhat Reza Chowdhury, M.L.A.
8. Mr. Abdul Rashid Mahmood, M.L.A.
9. The Commissioner of Chota Nagpur Division.
10. Inspector-General of Civil Hospitals, Bihar.
11. Babu Brajeshwar Sahay, B.A., B.L.
12. Mr. Mohiuddin, M.L.A.
13. Director of Health and Inspector-General of Prisons Orissa.

I wish to record my thanks to the Chairman and the members of the Managing Committee for their invaluable support, guidance and sympathetic considerations in all affairs appertaining to the hospital which were brought before them during the year under report.

36. *Committee of Visitors.*—Both ladies and gentlemen of the Board of Visitors took a keen interest in the welfare of the hospital and worked throughout the year with unremitting zeal.

Twelve meetings in the Male Section and 12 in the Female Section were held during the year under report.

The hospital was also visited by the following officials and other distinguished personages during the year under review :—

1. Dr. Rajendra Prasad, President, Indian National Congress.
2. The Commissioner of Chota Nagpur Division.
3. The Deputy Commissioner, Ranchi.
4. The Surgeon General with the Government of Bengal.
5. The Raja Bahadur of Tamkohi.
6. The Hon'ble Mr. Jaglal Choudhury, Minister of Excise and Public Health, Bihar.
7. The Inspector-General of Civil Hospitals, Bihar.
8. The Members of Managing Committee.

37. *Casual Visitors.*—Besides, the hospital was visited by several ladies and gentlemen, Indians and Europeans, throughout the year under report.

I express my gratitude on behalf of my patients to all the charitably disposed ladies and gentlemen who contributed freely to our Donation Fund during 1939.

38. *Lectures.*—The students of the Prince of Wales Medical College, Patna, were as usual sent in two batches to this hospital during the year under report to undergo a course of intensive training in mental diseases.

The post-graduate students of the Department of Psychology and Philosophy of the Calcutta University and several students of the Gurukul Vishwavidyalaya, Kangri, also visited the hospital, during the year under report. On these occasions short lectures with demonstrations of cases on special requests were delivered by me to the students.

39. *General*—(1) *Kanke Employees Co-operative Credit Society.*—The Society continued to flourish in every respect and rendered valuable help by granting loans to some of the staff who were in need of the help of the Society to get themselves freed from the clutches of the local Shylocks. The number of share-holders increased from 340 to 362 in the year under report.

(2) *Bratachari Movement.*—Remedial classes were regularly held every evening and some patients were trained in the Brata-

chari dance along with some of the attendants. Patients have taken a great liking to the Bratachari Movement which was only introduced last year. Mr. G. S. Dutt, I.C.S., the founder and the very life and soul of this movement attended a demonstration given by our patients and congratulated us for the good start and advised us to keep it up.

(3) *Patna Psychiatric Clinic.*—As fully stated in my last report the Psychiatric Clinic was opened in January 1939, at the Patna Medical College, and as ordered by Government I paid my first annual visit to the clinic and delivered lectures and clinic to the students. The clinic has made a fair start under the able guidance of Dr. S. M. Ghoshal, M.R.C.P. (Lond.) and is destined to play a great part in relieving the human sufferings along with the other departments of the Patna Medical College.

(4) *Public Lectures.*—During my sojourn in Patna I delivered the following lectures on special requests from the Associations :—

(1) Modern Problems in Psychiatry and Criminality at the Medico Legal Society of Bihar under the Presidentship of the Hon'ble the Chief Justice of Patna High Court.

(2) Psychoneurosis and Shell Shock at the Patna Medical Association.

(3) "Psychological and Economic factors in Birth Control" at the Students' Medical Associations. The subject was selected by the students.

J. E. DHUNJIBHOY,
LT.-COL., I.M.S.,

Superintendent, Indian Mental Hospital,
Kanke (Ranchi).

Acc. No..................

[illegible] ... to keep it up.

(3) *Patna Psychiatric Clinic.*—As fully stated in my last ... the Psychiatric Clinic was opened ... 1929, at the Medical College, and was opened by Government ... and my ... visit to the clinic ... and clinic ... The clinic has ... under the able ... and is destined ... along with ... of the Patna Medical College.

(4) *Public Lectures.*—During my sojourn in Patna I gave the following lectures on special requests from the various :—

(1) Modern Problems ... and ... in the Medico-Legal Society ... under the Presidentship of the Hon'ble the Chief Justice of Patna High Court.

(2) Psycho-... the ... of the Patna Medical Association.

(3) "Psychological ... and ... Factors in Birth Control" at ... Medical Association. The subjects were selected by the above.

J. E. DHUNJIBHOY,
[illegible]

Superintendent, Indian Mental Hospital,
Kanke (Ranchi).

STATEMENTS.

STATEMENT

Showing the admissions, discharges, etc., of patients in the Ranchi Indian

1	2			3			4			5		
Years.	Remained on 1st January.			Admitted.			Re-admitted.			Total population.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
1939	1,096	263	1,358	75	32	107	9	4	13	1,180	298	1,478
1938	1,06 8	256	1,324	122	33	155	13	7	20	1,203	296	1,499
1937	1,062	256	1,318	110	26	136	12	6	18	1,184	288	1,472

6	7			8			9			10		
Years.	Died.			Remaining on 31st December.			Daily average strength.			Daily average sick.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Female.	Total.
1939	24	9	33	1,094	259	1,353	1096·94	263·33	1360·27	70·83	26·50	97·33
1938	32	9	41	1,096	262	1,358	1086·23	258·65	1344·88	59·48	13·80	73·28
1937	31	8	39	1,068	256	1,324	1067·40	255·53	1322·93	60·63	13·50	74·13

Observation cases are excluded

The capacity of the Ranchi Indian Mental Hospital is at 50 superficial feet per patient

The maximum number of lunatics confined on any one night was

No. 1

Mental Hospital, Kanke, during the year 19 39, and the two previous years.

6														
Discharged.														
A			B						C			D		
Cured.			Transferred to friends.						Otherwise.			Total.		
			Improved.			Not improved.								
Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
50	26	76	9	3	12	2	...	2	1	1	2	62	30	92
65	17	82	6	6	12	2	2	4	2	...	2	75	25	100
68	16	84	9	6	15	7	2	9	1	...	1	85	24	109

11											
Percentage to—											
Daily average strength.						Admissions.					
A			B			C			D		
Cured.			Died.			Cured.			Died.		
Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
14·56	9·87	5·58	2·19	3·41	2·43	26·19	30·56	27·50	...	...	...
5·98	6·57	6·10	2·95	3·48	3·05	28·15	27·50	28·00	2·96	2·50	2·86
6·37	6·16	6·35	2·90	3·13	2·95	27·87	31·26	28·57	3·28	3·13	3·26

from this statement.

1,014+94 for males, 272 for females—Total 1,286+94.

1,103 males, 266 females—Total 1,369.

STATEMENT II

Showing cases admitted for observation in the Ranchi Indian Mental Hospital, Kanke, during the year 1939.

Name of Hospital.	Year.	Remaining on 1st January 1939.			Admitted during 1939.			Re-admitted.			Certified and admitted into the Hospital.			Certified and released under section 14 of Act IV of 1912.			Released as uncertified.			Died.			Remaining on 31st December 1939.			Remarks.
		M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M	F.	T.	
Indian Mental Hospital, Kanke, Ranchi.	1939 ...	...	...	...	2	...	2	...	...	...	1	...	1	...	...	...	1	...	1	...	...	...	...	...	...	

STATEMENT III.

Return of criminal patients in the Ranchi Indian Mental Hospital, Kanke, for the year 1939, and the two previous years.

1	2			3			4			5			6			7			8			9		
Years.	Remaining on 1st January.			Admitted.			Re-admitted.			Total.			Discharged, transferred, etc.			Died.			Remaining on 31st December.			Daily average strength.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females	Total.
1939 ...	458	42	500	16	6	22	1	...	1	475	48	523	13	5	(a) 18	4	1	5	458	42	500	438·95	44·72	483·67
1938 ...	439	48	487	50	5	55	5	...	5	494	53	547	29	9	(b) 38	7	2	9	458	42	500	439·86	44·13	483·99
1937 ...	436	48	484	31	5	36	3	4	7	470	57	527	24	8	(c) 32	7	1	8	439	48	487	433·69	41·24	474·93

(a) Of which (1) 9 male and (2) 1 female patients were transferred to the non-criminal class,

(b) Do. 18 male and 6 ditto ditto.

(c) Do. 7 male and 1 female patients were transferred to the non-criminal class.

STATEMENT IV.

Return showing the religion, sex and residence of patients admitted into the Ranchi Indian Mental Hospital, Kanke, during the year 1939 and the two previous years.

1	2			3			4						5			6		
							Christians.											
District.	Hindus.			Muhammadans.			Europeans and Eurasians.			Indians.			Other castes.			Total.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
Azamgarh	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Balasore	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Bara Banki	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	1	...	1
Baripada	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
Barisal	3	...	3	1	1	2	...	...	...	...	...	...	...	...	...	4	1	5
Bogra	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	1	...	1
Canton (China)	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	1
Calcutta	11	6	17	6	...	6	...	...	...	...	2	2	...	...	...	17	8	25
Champaran	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Chittagong	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	1	...	1
Dacca	1	1	2	1	1	2	...	...	...	...	...	...	...	...	...	2	2	4
Faridpur	1	1	2	1	2	3	...	...	...	...	...	...	...	...	...	3	3	6

Hazaribagh	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Ganjam	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
Homeless	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	2	...	2
Hooghly	1	...	1	1	...	1	...	...	...	...	...	...	...	...	...	2	...	2
Howrah	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Jessore	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Jaunpur	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Lahore	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Madras	...	1	1	...	...	...	...	...	...	...	3	3	...	...	...	...	4	4
Manbhum	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Midnapur	2	...	2	...	...	...	...	...	...	1	...	1	...	...	...	3	...	3
Monghyr	1	1	2	...	...	...	...	...	...	...	...	...	...	...	...	1	1	2
Murshidabad	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	3
Muzaffarpur	1	...	1	1	...	1	...	...	...	...	...	...	...	...	...	2	...	2
Mymensingh	2	...	2	5	...	5	...	...	...	...	...	...	...	...	...	7	...	7
Nadia	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	1	1
Nepal	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Noakhali	...	...	...	1	...	1	...	...	...	1	...	1	...	...	...	2	...	2
Pabna (Bengal)	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Patna	1	1	2	...	...	...	...	...	...	...	...	...	...	...	...	1	1	2
Pratapgarh	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	1	...	1
Ranchi	5	2	7	...	1	1	...	...	...	1	2	2	...	...	...	6	4	10
Santal Parganas	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Saran	1	...	1	1	...	1	...	...	...	...	...	...	...	...	...	2	...	2
Saugor (C. P.)	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Shahabad	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
Silchar	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Sultanpur	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1

STATEMENT IV—*concld.*

District	Hindus.			Muhammadans.			Christians.						Other castes.			Total.		
							Europeans and Eurasians.			Indians.								
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
Tippera	2	1	3	1	...	1	...	...	...	...	...	...	...	...	...	3	1	4
Unknown	4	2	6	1	1	2	...	...	...	...	1	1	...	...	...	5	4	9
24-Parganas	4	...	4	...	...	...	...	...	...	...	...	...	...	...	...	4	...	4
Total, 1939 ...	57	23	79	24	5	29	...	...	...	3	8	11	...	1	1	84	36	130
Total, 1938 ...	82	29	111	46	4	50	...	...	...	5	5	10	2	2	4	135	40	175
Total, 1937 ...	79	17	96	28	7	35	...	...	...	11	7	18	4	1	5	122	32	154

STATEMENT V.

Return showing the ages of patients admitted into the Ranchi Indian Mental Hospital, Kanke, during the year 1939 and the two previous years.

1	2			3			4			5			6		
Year.	Under 20.			20 to 40.			40 to 60.			Upwards of 60.			Total.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
1939	5	4	9	60	24	84	14	6	20	5	2	7	84	36	120
1938	4	4	8	108	26	134	21	9	30	2	1	3	135	40	175
1937	12	7	19	99	20	119	10	5	15	1	...	1	122	32	154

STATE

Showing the form of mental disorders in the admissions, discharges

Diseases.	Remaining on 31st December of the preceding year.			Admissions during the year.			Total.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.
1. Mental Deficiency	42	16	58	8	4	12	50	20	70
2. Maniac Depressive Insanity ...	111	42	153	21	12	33	132	54	186
3. Mania	99	40	130	9	5	14	108	45	153
4. Melancholia	134	27	161	1	1	2	135	28	163
5. Schizophrenia, including Dementia Præcox.	202	62	264	22	3	25	224	65	289
6. Secondary Dementia	64	14	78	...	...	..	64	14	78
7. Paranoia and Paranoid States ...	75	12	87	3	...	3	78	12	90
8. Epilepsy and Epileptic Insanity ...	69	5	74	1	1	2	70	6	76
9. Toxic Psychosis—									
(*a*) Acute Confusional Insanity ...	18	9	27	1	3	4	19	12	31
(*b*) Alcoholic Psychosis	26	6	32	2	...	2	28	6	34
(*c*) Canabis Indica Psychosis ...	104	1	105	3	1	4	107	2	109
(*d*) Of Endocrine Origin	...	...	...	...	...	...	...	...	...
(*e*) In relation to child bearing ...	...	1	1	...	...	...	...	1	1
(*f*) In relation to other constitutional diseases.	...	...	...	...	1	1	...	1	1
10. Organic Psychosis—									
(*a*) General	...	...	...	...	...	...	...	...	...
(*b*) Cerebral Syphilis	2	1	3	6	...	6	8	1	9
(*c*) Encephalitis	...	...	...	...	...	...	...	...	...
(*d*) Arteriopathic and Senile Psychosis	12	8	20	3	2	5	15	10	25
(*e*) Other cerebral Lesions ...	1	...	1	...	...	...	1	...	1
11. Neurosis and Psycho-Neurosis ...	24	...	24	1	2	3	25	2	27
12. No appreciable disease	93	13	106	1	1	2	94	14	108
13. Not yet diagnosed—(discharged before certification).	20	5	25	2	...	2	22	5	27
Total	1,096	262	1,358	84	36	120	1,180	298	1,478

MENT VI

recoveries and deaths during the year 1939.

Discharges.						Deaths.			Remaining on the 31st December.			Remarks.
Recoveries.			Otherwise.									
M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	
...	...	...	3	1	4	...	1	1	47	18	65	
13	8	21	2	...	2	6	1	7	111	45	156	
12	8	20	1	...	1	1	3	4	94	34	128	
1	3	4	...	...	...	1	...	1	133	25	158	
9	3	12	2	3	5	8	1	9	205	58	263	
...	...	...	1	...	1	6	1	7	57	13	70	
...	...	...	...	...	...	...	...	...	78	12	90	
...	...	...	2	..	2	...	1	1	68	5	73	
...	2	2	...	...	...	...	...	...	19	10	29	
3	1	4	...	...	...	...	...	...	25	5	30	
5	...	5	...	...	...	1	...	1	101	2	103	
...	...	...	...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	...	1	1	
...	...	...	...	...	...	...	...	...	...	1	1	
...	...	...	...	...	...	...	...	...	...	...	...	
...	...	...	1	...	1	...	...	...	7	1	8	
...	...	...	...	...	...	...	...	...	...	...	...	
1	...	1	..	...	...	1	1	2	13	9	22	
...	...	...	...	...	...	...	...	...	1	...	1	
1	1	2	...	...	...	...	...	...	24	1	25	
5	...	5	...	...	...	...	...	...	89	14	103	
...	...	...	...	...	...	...	..	...	22	5	27	
50	28	76	12	4	16	24	9	33	1,094	259	1,353	

STATEMENT VII

Showing the probable causes of insanity in the patients admitted during the year ending 31st December 1939.

Ætiological factors and associated conditions.	Predisposing causes.			Exciting causes.			Total.			Remarks.
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	
1	2	3	4	5	6	7	8	9	10	10(a)
MENTAL STRESS—										
Moral	9	5	14	3	5	8	12	10	22	
Business worry	...	...	...	57	4	61	57	4	61	
Domestic worry	...	1	1	61	30	91	61	31	92	
Strain of military service ...	...	...	...	...	...	...	...	...	...	
TOXINS—										
Canabis Indica	4	...	4	6	1	7	10	1	11	
Alcohol	4	...	4	8	2	10	12	2	14	
Other Toxins	2	2	4	10	...	10	12	2	14	
Physical	2	1	3	...	1	1	2	2	4	
Opium	–	...	...	...	...	...	...	...	...	
Bodily illness	...	1	1	1	...	1	1	1	2	
Pregnancy	...	...	...	...	...	...	...	...	...	
Childbirth	...	...	...	...	...	...	...	...	...	
Climacteric	...	...	...	...	...	...	...	...	...	
Epilepsy	1	2	3	...	...	...	1	2	3	
Head injuries	...	...	...	...	...	...	...	...	...	
INFECTIONS—										
Encephalitis Lethargica ...	...	...	...	...	...	...	...	...	...	
Influenza	...	...	...	...	...	...	...	...	...	
Syphilis	5	...	5	5	2	7	10	2	12	
Other infections	...	...	...	3	2	5	3	2	5	
Old age	...	1	1	...	...	...	...	1	1	
Hereditary Predisposition ...	13	5	18	...	...	...	13	5	18	
Previous attacks	18	9	27	...	...	...	18	9	27	
Unascertained	37	12	49	7	5	12	44	17	61	

STATEMENTS.

STATE

Abstract of Cash Account of the Indian Mental Hospital, Kanke,

Years.	Establishment.		Diet.	
	Total cost.	Cost per head of average strength.	Total cost.	Cost per head of average strength.
1	2	3	4	5
	Rs. a. p.	Rs. a. p.	Rs. a p.	Rs. a. p.
1939 ...	1,91,583 7 0	140 13 6	1,50,134 14 3	110 5 11
1938 ...	1,90,046 1 0	141 5 0	1,46,233 5 6	108 11 9
1937 ...	1,89,308 7 0	143 1 7	1,58,623 0 6	119 13 3

Years.	Miscellaneous.		Grand Total.		Charges on account of works done by the Public Works Department.	
	Total cost.	Cost per head of average strength.	Total cost.	Cost per head of average strength.	Total cost.	Cost per head of average strength.
1	12	13	14	15	16	17
			Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1939 ...	...	...	4,42,650 10 6	325 6 8	37,059 13 0	27 3 11
1938 ...	...	...	4,18,174 2 11	310 15 0	43,386 10 0	32 4 2
1937 ...	...	...	4,36,024 12 4	329 9 5	45,755 8 6	34 9 5

MENT A.

Ranchi, for the year 1939 and the two previous years.

Bedding and clothing.		Medicines.		Contingencies.	
Total cost.	Cost per head of average strength.	Total cost.	Cost per head of average strength.	Total cost.	Cost per head of average strength.
6	7	8	9	10	11
Rs. a. p.	Rs. a. p	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
32,185 2 6	23 10 7	3,590 13 9	2 10 3	65,156 5 0	47 14 5
14,256 8 6	10 9 7	5,756 13 3	4 4 6	61,881 6 8	46 0 2
21,588 15 9	16 5 1	4,859 15 3	3 10 9	61,744 5 10	46 10 9

Rates and Taxes.		Cost of printing and stationery.		Total expenditure, including all heads of expenditure.	
Total cost.	Cost per head of average strength.	Total cost.	Cost per head of average strength.	Total cost.	Cost per head of average strength.
18	19	20	21	22	23
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1,085 0 0	0 12 9	155 13 3	0 1 10	4,80,951 4 9	353 9 2
1,085 0 0	0 12 11	863 5 2	0 10 3	4,63,509 2 1	344 10 4
1,085 0 0	0 13 1	813 0 6	0 9 10	4,83,678 5 4	365 9 9

STATEMENT B.

Statement showing the number of paying patients treated in the Indian Mental Hospital at Kanke (Ranchi) during the year 1939, and the two previous years.

Year.		Remaining on 1st January.			Admitted.			Re-admitted.			Total treated.			Discharged and transferred.			Died.			Remaining on the 31st December.			Daily average strength.			Remarks.
		Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	
1939	...	43	19	62	7	4	11	5	...	5	55	13	78	7	6	13	...	...	...	48	17	65	40·63	16·87	57·50	
1938	...	56	18	74	8	11	19	6	1	7	70	30	100	25	10	35	2	1	3	43	19	62	46·29	16·93	63·22	
1937	...	53	16	69	21	8	29	4	...	4	78	24	102	21	6	27	1	...	1	56	18	74	51·71	16·12	67·83	

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Superintendent,
Indian Mental Hospital,
Kanke (Ranchi).

BGP(IMH) 11—527—16-12-1940—HPG